RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09 674 546 B

Source: ITW16

Date Processed by STIC: 5-18-06

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IFW16

RAW SEQUENCE LISTING   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:25

        Input Set : E:\SEQLIST223002101200.txt
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     3 <110> APPLICANT: Institute for Genomic Research
     4   Chiron Corporation
     6 <120> TITLE OF INVENTION: Neisseria Meningitidis Antigens and Compositions
     8 <130> FILE REFERENCE: CHIR-0334
    10 <140> CURRENT APPLICATION NUMBER: 09/674,546B
C--> 11 <141> CURRENT FILING DATE: 2002-11-04
    13 <160> NUMBER OF SEQ ID NOS: 3265
    15 <170> SOFTWARE: PatentIn version 3.2
    17 <210> SEQ ID NO: 1
    18 <211> LENGTH: 396
    19 <212> TYPE: DNA
    20 <213> ORGANISM: Neisseria gonorrhoeae
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    25 tgcgcccgga tggtgctggt catctgccag acgctgccga aacgcgatac tttaaacggc   120
    27 tcgggtacgc atactttacc ggtttgggcg attttgccga ggtcgttgcg cagcaaatcg   180
    29 acaatcatca cgttttcggc gcggtttttc gggtcggttt gtaactcggc ggcgcggcgt   240
    31 tcgtcttgtc cgtcgcccaa aatcggcgcg gtgcctttca tcggttcggt gctgatggtg   300
    33 ccgtctgaag cgatgttgag gaagagttcg ggcgagaaac acagcgtcca cgcggattgc   360
    35 ccggcttcat cgggcaggtg ggacaatacg gcatag   396
    38 <210> SEQ ID NO: 2
    39 <211> LENGTH: 131
    40 <212> TYPE: PRT
    41 <213> ORGANISM: Neisseria gonorrhoeae
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    50   20   25   30
    53 Pro Lys Arg Asp Thr Leu Asn Gly Ser Gly Thr His Thr Leu Pro Val
    54   35   40   45
    57 Trp Ala Ile Leu Pro Arg Ser Leu Arg Ser Lys Ser Thr Ile Ile Thr
    58   50   55   60
    61 Phe Ser Ala Arg Phe Phe Gly Ser Val Cys Asn Ser Ala Ala Arg Arg
    62 65   70   75   80
    65 Ser Ser Cys Pro Ser Pro Lys Ile Gly Ala Val Pro Phe Ile Gly Ser
    66   85   90   95
    69 Val Leu Met Val Pro Ser Glu Ala Met Leu Arg Lys Ser Ser Gly Glu
    70   100   105   110
    73 Lys His Ser Val His Ala Asp Cys Pro Ala Ser Ser Gly Arg Trp Asp
    74   115   120   125
    77 Asn Thr Ala
    78   130

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 82 <211> LENGTH: 395
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Neisseria meningitidis
 86 <400> SEQUENCE: 3
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 89 ssgcttggay ggtgctggtc atctgccaaa cgctgccgaa acgcgatact ttaaacggtt     120
 91 cgggtacgca tactgtgccg gtttgggcga ttttgccgag atcgttacgc agcaaatcga     180
 93 caatcatcac gttttcggcg cggttttcg ggtctgcttg caactcggcg gcgcggcgtt     240
 95 cgtcttgtcc gtcgcccaaa atcggcgcgg tgcctttcat cggttcggtg ctgatggtgc     300
 97 cgtccgaacc gattttgagg aagagttcgg gcgagaaaca cagcgtccac gcggattgcc     360
 99 cctccgcatc gggcaggtgg gacaagacgg catag                                395

102 <210> SEQ ID NO: 4
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104 <212> TYPE: PRT
105 <213> ORGANISM: Neisseria meningitidis
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110 <222> LOCATION: (19)..(19)
111 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
113 <220> FEATURE:
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115 <222> LOCATION: (21)..(21)
116 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (24)..(24)
121 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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129 Cys Gly Xaa Leu Xaa Ala Trp Xaa Val Leu Val Ile Cys Gln Thr Leu
130             20                  25                  30
133 Pro Lys Arg Asp Thr Leu Asn Gly Ser Gly Thr His Thr Val Pro Val
134         35                  40                  45
137 Trp Ala Ile Leu Pro Arg Ser Leu Arg Ser Lys Ser Thr Ile Ile Thr
138     50                  55                  60
141 Phe Ser Ala Arg Phe Phe Gly Ser Ala Cys Asn Ser Ala Ala Arg Arg
142 65                  70                  75                  80
145 Ser Ser Cys Pro Ser Pro Lys Ile Gly Ala Val Pro Phe Ile Gly Ser
146                 85                  90                  95
149 Val Leu Met Val Pro Ser Glu Pro Ile Leu Arg Lys Ser Ser Gly Glu
150                 100                 105                 110
153 Lys His Ser Val His Ala Asp Cys Pro Ser Ala Ser Gly Arg Trp Asp
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169 tgggcttgga tggtgctggt catctgccaa acgctgccga aacgcgatac tttaaacggt     120
171 tcgggtacgc atactgtgcc ggtttgggcg attttgccga ggtcgttacg cagcaaatcg     180
173 acaatcatca cgttttcggc gcggtttttc gggtctgctt gcaactcggc ggcgcggcgt     240
175 tcgtcttgtc cgtcgcccaa aatcggcgcg gtgcctttca tcggttcggt gctgatggtg     300
177 ccgtccgaac cgattttgag gaagagttcg ggcgagaaac acagcgtcca cgcggattgc     360
179 ccttgtgcat cgggcaggtg ggacaaaacg gcatag                              396
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183 <211> LENGTH: 131
184 <212> TYPE: PRT
185 <213> ORGANISM: Neisseria meningitidis
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190 1               5                   10                  15
193 Cys Gly Lys Ala Trp Ala Trp Met Val Leu Val Ile Cys Gln Thr Leu
194             20                  25                  30
197 Pro Lys Arg Asp Thr Leu Asn Gly Ser Gly Thr His Thr Val Pro Val
198         35                  40                  45
201 Trp Ala Ile Leu Pro Arg Ser Leu Arg Ser Lys Ser Thr Ile Ile Thr
202     50                  55                  60
205 Phe Ser Ala Arg Phe Phe Gly Ser Ala Cys Asn Ser Ala Ala Arg Arg
206 65                  70                  75                  80
209 Ser Ser Cys Pro Ser Pro Lys Ile Gly Ala Val Pro Phe Ile Gly Ser
210                 85                  90                  95
213 Val Leu Met Val Pro Ser Glu Pro Ile Leu Arg Lys Ser Ser Gly Glu
214                 100                 105                 110
217 Lys His Ser Val His Ala Asp Cys Pro Cys Ala Ser Gly Arg Trp Asp
218         115                 120                 125
221 Lys Thr Ala
222     130
225 <210> SEQ ID NO: 7
226 <211> LENGTH: 663
227 <212> TYPE: DNA
228 <213> ORGANISM: Neisseria gonorrhoeae
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (529)..(529)
234 <223> OTHER INFORMATION: n is a, c, g, or t
236 <400> SEQUENCE: 7
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239 ctcttcggtc agggtgcgtt tgagttcggc gtcactcggt tttttatacg ttgccgcgtc     120
241 gaagcctttg ccttgcggtg cggctttggt tttgcccggc agcggttcgt cggctttgcg     180
243 gatgtcgatg tggcagtagc cgttggggtt tttaatcagg tagtcctgat ggtattcctc     240
245 ggcgtcgtag aagttttca gcggttcgtt ttcaacaacg aggggcagtt ggtatttttg     300
247 ctgctcgcgt ttgagggcgg cggcgatgac ggcttttcg gcggggtcgg tgtagtacac     360
249 gccgctgcgg tattgcgtgc cggtgtcgtt accctgtttg ttgaggctgg tcggatcaac     420
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    251 gacgcggaaa taatattgca ggatgtcgtc caggctgagt ttgtcggcat cgtaggtcac   480
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    255 cgtgttgccg ttggcgttac cggataccgc gtcaaccacg ccgtcgatgc gttggaaata   600
    257 ggcttccaag ccccaaaagc agccgccggc gaagtaaatg gtgcccgtgt tcatgattgc   660
    259 tga                                                                 663
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    265 <213> ORGANISM: Neisseria gonorrhoeae
    267 <400> SEQUENCE: 8
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    270 1               5                   10                  15
    273 His Leu Val Leu Leu Phe Gly Gln Gly Ala Phe Glu Phe Gly Val Thr
    274             20                  25                  30
    277 Arg Phe Phe Ile Arg Cys Arg Val Glu Ala Phe Ala Leu Arg Cys Gly
    278         35                  40                  45
    281 Phe Gly Phe Ala Arg Gln Arg Phe Val Gly Phe Ala Asp Val Asp Val
    282     50                  55                  60
    285 Ala Val Ala Val Gly Val Phe Asn Gln Val Val Leu Met Val Phe Leu
    286 65                  70                  75                  80
    289 Gly Val Val Glu Val Phe Gln Arg Phe Val Phe Asn Asn Glu Gly Gln
    290                 85                  90                  95
    293 Leu Val Phe Leu Leu Leu Ala Phe Glu Gly Gly Gly Asp Asp Gly Phe
    294                 100                 105                 110
    297 Phe Gly Gly Val Gly Val Val His Ala Ala Ala Val Leu Arg Ala Gly
    298         115                 120                 125
    301 Val Val Thr Leu Phe Val Glu Ala Gly Arg Ile Asn Asp Ala Glu Ile
    302     130                 135                 140
    305 Ile Leu Gln Asp Val Val Gln Ala Glu Phe Val Gly Ile Val Gly His
    306 145                 150                 155                 160
    309 Phe Asp Gly Leu Gly Met Thr Arg Met Ala Val Gly His Phe Phe Val
    310                 165                 170                 175
    313 Arg Val Phe Arg Val Ala Val Gly Val Thr Gly Tyr Arg Val Asn His
    314         180                 185                 190
    317 Ala Val Asp Ala Leu Glu Ile Gly Phe Gln Ala Pro Lys Ala Ala Ala
    318     195                 200                 205
    321 Gly Glu Val Asn Gly Ala Arg Val His Asp Cys
    322     210                 215
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    328 <213> ORGANISM: Neisseria meningitidis
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    333 ctcttcggtc agggtgcgtt tgagttcggc gtcactcggt tttttatacg ttgccgcgtc   120
    335 gaagcctttg ccttgcgggg cggtcttggt tttgcccggc agcggttcgt cagckttgcg   180
    337 gatgtcgatg tggcagtagc cgttgggggtt tttaatcaag tagtcctgat ggtattcctc   240
    339 ggcatcgtag aagtttttca gcggctcgtt ttcaacaacg aggggcagtt ggtattttg   300
    341 ctgctcgcgt ttgagggcgk cggcgatgac ggctttttcg kcggggtcgg tgtagtacac   360
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 343 gccgctgcgg tattgcgtac cggtgtcgtt gccctgtttg ttgaggctgg tcggatcaac      420
 345 gacgcggaag aaatattgca ggatgtcgtc taggctgagt ttgtcggcat cgtaggtcac      480
 347 tttgacggtt tcggcgtggc ccgtatggcg gtaggacacg tcttcatagc tcggattttt      540
 349 cgtgttgccg ttggcgtagc cggataccgc gtcaaccacg ccgtcgatgc gttggaaata      600
 351 ggcttccaag ccccagaagc agcgccggcg aggtaaatgg tgcgcgtgtt catgattttt      660
 353 ga                                                                      662
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 357 <211> LENGTH: 219
 358 <212> TYPE: PRT
 359 <213> ORGANISM: Neisseria meningitidis
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 363 <221> NAME/KEY: misc_feature
 364 <222> LOCATION: (19)..(19)
 365 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 367 <220> FEATURE:
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 369 <222> LOCATION: (59)..(59)
 370 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 372 <220> FEATURE:
 373 <221> NAME/KEY: misc_feature
 374 <222> LOCATION: (107)..(107)
 375 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 379 <222> LOCATION: (114)..(114)
 380 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 384 <222> LOCATION: (208)..(208)
 385 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 390 1               5                   10                  15
W--> 393 Asn Leu Xaa Leu Leu Phe Gly Gln Gly Ala Phe Glu Phe Gly Val Thr
 394             20                  25                  30
 397 Arg Phe Phe Ile Arg Cys Arg Val Glu Ala Phe Ala Leu Arg Gly Gly
 398         35                  40                  45
W--> 401 Leu Gly Phe Ala Arg Gln Arg Phe Val Ser Xaa Ala Asp Val Asp Val
 402     50                  55                  60
 405 Ala Val Ala Val Gly Val Phe Asn Gln Val Val Leu Met Val Phe Leu
 406 65                  70                  75                  80
 409 Gly Ile Val Glu Val Phe Gln Arg Leu Val Phe Asn Asn Glu Gly Gln
 410                 85                  90                  95
W--> 413 Leu Val Phe Leu Leu Leu Ala Phe Glu Gly Xaa Gly Asp Asp Gly Phe
 414             100                 105                 110
W--> 417 Phe Xaa Gly Val Gly Val Val His Ala Ala Ala Val Leu Arg Thr Gly
 418             115                 120                 125
 421 Val Val Ala Leu Phe Val Glu Ala Gly Arg Ile Asn Asp Ala Glu Glu
 422     130                 135                 140
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt
Output Set: N:\CRF4\05152006\I674546B.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

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Output Set: N:\CRF4\05152006\I674546B.raw

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Seq#:190; Xaa Pos. 10,12,13
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Seq#:285; N Pos.  86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103
Seq#:285; N Pos.  104,105,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:285; N Pos.  118,119,120,121,122,123,124,125,126,127,128,129,130,131
Seq#:285; N Pos.  132,133,134,135,136,137,138,139,140,141,142,143,144,145
Seq#:285; N Pos.  146,147,148,149,150,151,152,153,154,155,156,157,158,159
Seq#:285; N Pos.  160,161,162,163,164,165,166,167,168,169,170,171,172,173
Seq#:285; N Pos.  174,175,176,177,178,179,180,181,182,183,184,185,186,187
Seq#:285; N Pos.  188,189,190,191,192,193,194,195,196,197,198,199,200,201
Seq#:285; N Pos.  202,203,204,205,206,207,208,209,210,211,212,213,214,215
Seq#:285; N Pos.  216,217,218,219,220,221,222,223,224,225,226,227,228,229
Seq#:285; N Pos.  230,231,232,233,234,235,236,237,238,239,240,241,242,243
Seq#:285; N Pos.  244,245,246,247,248,249,250,251,252,253,254,255,256,257
Seq#:285; N Pos.  258,259,260,261,262,263,264,265,266,267,268,269,270,271
Seq#:285; N Pos.  272,273,274,275,276,277,278,279,280,281,282,283,284,285
Seq#:285; N Pos.  286,287,288,289,290,291,292,293,294,295,296,297,298,299
Seq#:285; N Pos.  300,301,302,303,304,305,306,307,308,309,310,311,312,313
Seq#:285; N Pos.  314,315,316,317,318,319,320,321,322,323,324,325,326,327
Seq#:285; N Pos.  328,329,330,331,332,333,334,335,336,337,338,339,340,341
Seq#:285; N Pos.  342,343,344,345,346,347,348,349,350,351,352,353,354,355
Seq#:285; N Pos.  356,357,358,359,360,361,362,363,364,365,366,367,368,369
Seq#:285; N Pos.  370,371,372,373,374,375,376,377,378,379,380,381,382,383
Seq#:285; N Pos.  384,385,386,387,388,389,390,391,392,393,394,395,396,397
Seq#:285; N Pos.  398,399,400,401,402,403,404,405,406,407,408,409,410,411
Seq#:285; N Pos.  412,413,414,415,416,417,418,419,420,421,422,423,424,425
Seq#:285; N Pos.  426,427,428,429,430,431,432,433,434,435,436,437,438,439
Seq#:285; N Pos.  440,441,442,443,444,445,446,447,448,449,450,451,452,453
Seq#:285; N Pos.  454,455,456,457,458,459,460,461,462,463,464,465,466,467
Seq#:285; N Pos.  468,469,470,471,472,473,474,475,476,477,478,479,480,481
Seq#:285; N Pos.  482,483,484,485,486,487,488,489,490,491,492,493,494,495
Seq#:285; N Pos.  496,497,498,499,500,501,502,503,504,505,506,507,508,509
Seq#:285; N Pos.  510,511,512,513
Seq#:286; Xaa Pos.  361,366
Seq#:292; Xaa Pos.  7,79
Seq#:296; Xaa Pos.  111,114
Seq#:298; Xaa Pos.  114
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt
Output Set: N:\CRF4\05152006\I674546B.raw

```
Seq#:300; Xaa Pos. 114
Seq#:318; Xaa Pos. 70,170
Seq#:320; Xaa Pos. 170
Seq#:330; Xaa Pos. 120
Seq#:336; Xaa Pos. 108
Seq#:338; Xaa Pos. 108
Seq#:342; Xaa Pos. 45
Seq#:361; N Pos. 55,206,736,796,991,1038,1092,1183,1200
Seq#:362; Xaa Pos. 19,69,246,266,331,395,400
Seq#:366; Xaa Pos. 90,144,174,187,188,229,230
Seq#:371; N Pos. 565
Seq#:372; Xaa Pos. 189
Seq#:378; Xaa Pos. 37
Seq#:393; N Pos. 280,302,311
Seq#:396; Xaa Pos. 46,64,74,77
Seq#:408; Xaa Pos. 53,82,112
Seq#:414; Xaa Pos. 388,389,390,401
Seq#:432; Xaa Pos. 33
Seq#:437; N Pos. 364,365,366,367,368,369,370,371,372,373,374,375,376,377
Seq#:437; N Pos. 378,379,380,381,382,383,384,385,386,387,388,389,390,391
Seq#:437; N Pos. 392,393,394,395,396,397,398,399,400,401,402,403,404,405
Seq#:437; N Pos. 406,407,408,409,410,411,412,413,414,415,416,417,418,419
Seq#:437; N Pos. 420,421,422,423,424,425,426,427,428,429,430,431,432,433
Seq#:437; N Pos. 434,435,436,437,438,439,440,441,442,443,444,445,446,447
Seq#:437; N Pos. 448,449,450,451,452,453,454,455,456,457,458,459,460,461
Seq#:437; N Pos. 462,463,464,465,466,467,468,469,470,471,472,473,474,475
Seq#:437; N Pos. 476,477,478,479,480,481,482,483,484,485,486,487,488,489
Seq#:437; N Pos. 490,491,492,493,494,495,496,497,498,499,500,501,502,503
Seq#:437; N Pos. 504,505,506,507,508,509,510,511,512,513,514,515,516,517
Seq#:437; N Pos. 518,519,520,521,522,523,524,525,526,527,528,529,530,531
Seq#:437; N Pos. 532,533,534,535,536,537,538,539,540,541,542,543,544,545
Seq#:437; N Pos. 546,547,548,549,550,551,552,553,554,555,556,557,558,559
Seq#:437; N Pos. 560,561,562,563,564,565,566,567,568,569,570,571,572,573
Seq#:437; N Pos. 574,575,576,577,578,579,580,581,582,583,584,585,586,587
Seq#:437; N Pos. 588,589,590,591,592,593,594,595,596,597,598,599,600,601
Seq#:437; N Pos. 602,603,604,605,606,995,1082
Seq#:438; Xaa Pos. 122,123,124,125,126,127,128,129,130,131,132,133,134,135
Seq#:438; Xaa Pos. 136,137,138,139,140,141,142,143,144,145,146,147,148,149
Seq#:438; Xaa Pos. 150,151,152,153,154,155,156,157,158,159,160,161,162,163
Seq#:438; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177
Seq#:438; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:438; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,332,361
Seq#:441; N Pos. 995,1082
Seq#:442; Xaa Pos. 332,361
Seq#:448; Xaa Pos. 89,187,215,220
Seq#:460; Xaa Pos. 254,297
Seq#:462; Xaa Pos. 330
Seq#:478; Xaa Pos. 220
Seq#:483; N Pos. 1216,1334,1347
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

```
Seq#:484; Xaa Pos. 149,158,167,190,198,289,313,328,331,339,343,347,406,445
Seq#:496; Xaa Pos. 69,86,95
Seq#:502; Xaa Pos. 31,179
Seq#:546; Xaa Pos. 113,164
Seq#:576; Xaa Pos. 134
Seq#:623; N Pos. 488
Seq#:624; Xaa Pos. 163
Seq#:641; N Pos. 386,395,456,799,800,801,803,805,1224,1226
Seq#:642; Xaa Pos. 129,132,152,199,267,268,269,409
Seq#:670; Xaa Pos. 64
Seq#:691; N Pos. 1169,1187,1280
Seq#:692; Xaa Pos. 390,396,427
Seq#:700; Xaa Pos. 158,165,175,176,177,182
Seq#:706; Xaa Pos. 3,5,15,22
Seq#:718; Xaa Pos. 116
Seq#:730; Xaa Pos. 138
Seq#:736; Xaa Pos. 501,502,507,514
Seq#:744; Xaa Pos. 73
Seq#:754; Xaa Pos. 153
Seq#:760; Xaa Pos. 32,94
Seq#:766; Xaa Pos. 33,147,163,182,197
Seq#:771; N Pos. 568
Seq#:772; Xaa Pos. 77,190
Seq#:774; Xaa Pos. 190
Seq#:777; N Pos. 135
Seq#:778; Xaa Pos. 23,35
Seq#:780; Xaa Pos. 44
Seq#:782; Xaa Pos. 24
Seq#:784; Xaa Pos. 2,6,90
Seq#:790; Xaa Pos. 66
Seq#:793; N Pos. 250
Seq#:794; Xaa Pos. 84
Seq#:796; Xaa Pos. 13
Seq#:797; N Pos. 160,247,277,656
Seq#:798; Xaa Pos. 54,83,93,219
Seq#:799; N Pos. 250
Seq#:800; Xaa Pos. 84
Seq#:803; N Pos. 160,247,277,656
Seq#:804; Xaa Pos. 54,83,93,219
Seq#:814; Xaa Pos. 3
Seq#:824; Xaa Pos. 21,83
Seq#:826; Xaa Pos. 27
Seq#:843; N Pos. 113
Seq#:844; Xaa Pos. 38
Seq#:854; Xaa Pos. 143,182
Seq#:867; N Pos. 83,84,113
Seq#:868; Xaa Pos. 28,38
Seq#:878; Xaa Pos. 55,60,123,131
Seq#:883; N Pos. 821
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

```
Seq#:884; Xaa Pos. 174,274,378
Seq#:896; Xaa Pos. 7,12
Seq#:902; Xaa Pos. 118,159
Seq#:921; N Pos. 80
Seq#:922; Xaa Pos. 27
Seq#:926; Xaa Pos. 21,53
Seq#:932; Xaa Pos. 256,258,273
Seq#:938; Xaa Pos. 256,258
Seq#:944; Xaa Pos. 113
Seq#:950; Xaa Pos. 1,9,10
Seq#:951; N Pos. 893
Seq#:952; Xaa Pos. 298
Seq#:962; Xaa Pos. 11,17,18,33,42,47,48,49,78,125,148
Seq#:969; N Pos. 130,131,132,133,134,135,136,137,138,139,140,141,142,143
Seq#:969; N Pos. 144,145,146,147,148,149,150,151,152,153,154,155,156,157
Seq#:969; N Pos. 158,159,160,161,162,163,164,165,166,167,168,169,170,171
Seq#:969; N Pos. 172,173,174,175,176,177,178,179,180,181,182,183
Seq#:970; Xaa Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61
Seq#:980; Xaa Pos. 91
Seq#:1008; Xaa Pos. 31
Seq#:1020; Xaa Pos. 7,20,60,118,126
Seq#:1023; N Pos. 1134
Seq#:1026; Xaa Pos. 509,511
Seq#:1032; Xaa Pos. 86,166,185
Seq#:1034; Xaa Pos. 185
Seq#:1044; Xaa Pos. 86,87,90
Seq#:1046; Xaa Pos. 174
Seq#:1056; Xaa Pos. 52,77
Seq#:1066; Xaa Pos. 69,103
Seq#:1068; Xaa Pos. 76,77
Seq#:1072; Xaa Pos. 51
Seq#:1083; N Pos. 209
Seq#:1084; Xaa Pos. 51,128,133
Seq#:1100; Xaa Pos. 31
Seq#:1106; Xaa Pos. 1,116
Seq#:1111; N Pos. 1103
Seq#:1112; Xaa Pos. 15,363,368
Seq#:1115; N Pos. 368
Seq#:1116; Xaa Pos. 123
Seq#:1118; Xaa Pos. 162
Seq#:1149; N Pos. 6,8,38,39,96,102,341,390,410
Seq#:1150; Xaa Pos. 3,13,114,137
Seq#:1232; Xaa Pos. 281
Seq#:1256; Xaa Pos. 330,332,359,361,363,364
Seq#:1262; Xaa Pos. 102,107,121,124
Seq#:1268; Xaa Pos. 46,49,56,79,137
Seq#:1275; N Pos. 131,278,513,629,645
Seq#:1276; Xaa Pos. 44,93,171,210,215
Seq#:1280; Xaa Pos. 181
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

```
Seq#:1281; N Pos. 198,275,291,312,537
Seq#:1282; Xaa Pos. 66,92,97,104,179
Seq#:1287; N Pos. 198,275,291,312,537
Seq#:1288; Xaa Pos. 66,92,97,104,179
Seq#:1291; N Pos. 240,321,322,323,324,325,326,327,328,329,330,331,332,333
Seq#:1291; N Pos. 334,335,336,337,338,339,340,341,342,343,344,367,385
Seq#:1292; Xaa Pos. 80,108,109,110,111,112,113,114,115,123,129
Seq#:1304; Xaa Pos. 147,199,338
Seq#:1321; N Pos. 47
Seq#:1322; Xaa Pos. 16,120,121,148,178
Seq#:1334; Xaa Pos. 4,222,233,283,400,500,520,548
Seq#:1340; Xaa Pos. 48,51,110,120,168
Seq#:1364; Xaa Pos. 136
Seq#:1370; Xaa Pos. 228
Seq#:1378; Xaa Pos. 82,93,94,98,132,213,214
Seq#:1379; N Pos. 1382
Seq#:1380; Xaa Pos. 461,473
Seq#:1384; Xaa Pos. 25,126
Seq#:1390; Xaa Pos. 65
Seq#:1396; Xaa Pos. 308,389,565
Seq#:1398; Xaa Pos. 507,561
Seq#:1401; N Pos. 24
Seq#:1402; Xaa Pos. 103,106
Seq#:1404; Xaa Pos. 101
Seq#:1415; N Pos. 79
Seq#:1416; Xaa Pos. 27
Seq#:1420; Xaa Pos. 167,246,248,259,299,300
Seq#:1421; N Pos. 775,776,777,778
Seq#:1422; Xaa Pos. 259,260
Seq#:1438; Xaa Pos. 54
Seq#:1444; Xaa Pos. 89
Seq#:1446; Xaa Pos. 90
Seq#:1462; Xaa Pos. 9,20,129,163
Seq#:1464; Xaa Pos. 10,129
Seq#:1474; Xaa Pos. 27,39,78,96
Seq#:1485; N Pos. 51,122,149
Seq#:1486; Xaa Pos. 41,50
Seq#:1492; Xaa Pos. 8,15,18,113,144,172
Seq#:1494; Xaa Pos. 143,173
Seq#:1504; Xaa Pos. 46,56,69,75,77,81,82
Seq#:1510; Xaa Pos. 94
Seq#:1528; Xaa Pos. 1,25,28,38,54
Seq#:1533; N Pos. 438
Seq#:1543; N Pos. 25,35
Seq#:1544; Xaa Pos. 9,12
Seq#:1546; Xaa Pos. 251
Seq#:1552; Xaa Pos. 23
Seq#:1557; N Pos. 624,780
Seq#:1558; Xaa Pos. 273
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt
Output Set: N:\CRF4\05152006\I674546B.raw

```
Seq#:1563; N Pos. 992
Seq#:1564; Xaa Pos. 319
Seq#:1582; Xaa Pos. 96,160,203,206
Seq#:1583; N Pos. 29,44,201,202,253
Seq#:1584; Xaa Pos. 10,15,68,85
Seq#:1588; Xaa Pos. 2,22,33,66,79
Seq#:1589; N Pos. 105,119,125,145,152,162,202,206
Seq#:1590; Xaa Pos. 35,40,42,49,51,54,68,69
Seq#:1594; Xaa Pos. 115
Seq#:1596; Xaa Pos. 115
Seq#:1599; N Pos. 142
Seq#:1600; Xaa Pos. 48,147,173
Seq#:1606; Xaa Pos. 53,79
Seq#:1622; Xaa Pos. 163
Seq#:1646; Xaa Pos. 90
Seq#:1663; N Pos. 469,477
Seq#:1664; Xaa Pos. 156,158
Seq#:1666; Xaa Pos. 1963
Seq#:1722; Xaa Pos. 105
Seq#:1800; Xaa Pos. 133,149
Seq#:1818; Xaa Pos. 460
Seq#:1836; Xaa Pos. 111,116
Seq#:1857; N Pos. 390
Seq#:1858; Xaa Pos. 130
Seq#:1898; Xaa Pos. 33,75
Seq#:1900; Xaa Pos. 40
Seq#:1952; Xaa Pos. 104
Seq#:1954; Xaa Pos. 104,120
Seq#:1961; N Pos. 960
Seq#:1962; Xaa Pos. 320
Seq#:1970; Xaa Pos. 16,81,161,279,317
Seq#:1972; Xaa Pos. 160
Seq#:1976; Xaa Pos. 159,164,277
Seq#:1978; Xaa Pos. 159
Seq#:1997; N Pos. 284
Seq#:1998; Xaa Pos. 95
Seq#:2022; Xaa Pos. 145
Seq#:2063; N Pos. 57
Seq#:2064; Xaa Pos. 19
Seq#:2073; N Pos. 386,387,388,389,390,391,392,393,394,395,396,397,398,399
Seq#:2073; N Pos. 400,401,402
Seq#:2074; Xaa Pos. 129,130,131,132,133,134
Seq#:2102; Xaa Pos. 436
Seq#:2104; Xaa Pos. 436
Seq#:2142; Xaa Pos. 272
Seq#:2144; Xaa Pos. 169
Seq#:2146; Xaa Pos. 168
Seq#:2156; Xaa Pos. 163
Seq#:2158; Xaa Pos. 163
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

```
Seq#:2172; Xaa Pos. 160,172
Seq#:2182; Xaa Pos. 262
Seq#:2246; Xaa Pos. 212
Seq#:2248; Xaa Pos. 210
Seq#:2259; N Pos. 188,232,351
Seq#:2260; Xaa Pos. 63,78,117
Seq#:2275; N Pos. 85,86,87,88,89,90,91,92,93,94,95,96
Seq#:2276; Xaa Pos. 29,30,31,32
Seq#:2307; N Pos. 11
Seq#:2308; Xaa Pos. 4
Seq#:2315; N Pos. 1062,1063
Seq#:2316; Xaa Pos. 355
Seq#:2335; N Pos. 430
Seq#:2336; Xaa Pos. 144
Seq#:2371; N Pos. 1,180,209,250,485,501,512,563,622,623,757,758,759,760,761
Seq#:2371; N Pos. 762,765,770,772,784,898,998,1001,1049
Seq#:2372; Xaa Pos. 1,70,84,162,171,188,208,253,254,255,257,258,262,300,333
Seq#:2372; Xaa Pos. 334,350
Seq#:2377; N Pos. 164,287,331,408,416
Seq#:2378; Xaa Pos. 55,96,111,139
Seq#:2383; N Pos. 13,45,95,96,138,237,423,432,433,434,436,446,451,453,458
Seq#:2383; N Pos. 460,461,463,464,466,467,470,472,473,480,481,482,485,492
Seq#:2383; N Pos. 495,500,510,526,534,591,617,618,619,632,896,899,1060,1137
Seq#:2383; N Pos. 1265
Seq#:2384; Xaa Pos. 5,32,141,144,145,146,149,151,153,154,155,156,157,158
Seq#:2384; Xaa Pos. 161,162,164,165,167,176,178,206,207,211,299,300,354,422
Seq#:2387; N Pos. 276
Seq#:2593; N Pos. 51
Seq#:2594; Xaa Pos. 17
Seq#:2702; Xaa Pos. 26
Seq#:2705; N Pos. 709
Seq#:2706; Xaa Pos. 26,237
Seq#:2716; Xaa Pos. 173
Seq#:2718; Xaa Pos. 411
Seq#:2719; N Pos. 1339,1515,1527
Seq#:2720; Xaa Pos. 447
Seq#:2724; Xaa Pos. 273,308,423
Seq#:2726; Xaa Pos. 433
Seq#:2732; Xaa Pos. 139
Seq#:2736; Xaa Pos. 2
Seq#:2738; Xaa Pos. 12
Seq#:2774; Xaa Pos. 108,153
Seq#:2780; Xaa Pos. 16
Seq#:2796; Xaa Pos. 112
Seq#:2798; Xaa Pos. 109,208,209,228
Seq#:2822; Xaa Pos. 142
Seq#:2824; Xaa Pos. 122,159
Seq#:2840; Xaa Pos. 115,213
Seq#:2842; Xaa Pos. 215
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Seq#:2848; Xaa Pos. 246
Seq#:2860; Xaa Pos. 129,130
Seq#:2867; N Pos. 528
Seq#:2868; Xaa Pos. 53,135,145,177
Seq#:2870; Xaa Pos. 76
Seq#:2913; N Pos. 497
Seq#:2914; Xaa Pos. 166
Seq#:2946; Xaa Pos. 12,125
Seq#:2952; Xaa Pos. 224
Seq#:2971; N Pos. 363,652
Seq#:2972; Xaa Pos. 218
Seq#:2983; N Pos. 504
Seq#:2984; Xaa Pos. 168
Seq#:3044; N Pos. 6,8,38,39,96,102,341,390,410
Seq#:3045; Xaa Pos. 3,13,114,137
Seq#:3076; N Pos. 752,839
Seq#:3077; Xaa Pos. 122,123,124,125,126,127,128,129,130,131,132,133,134,135
Seq#:3077; Xaa Pos. 136,137,138,139,140,141,142,143,144,145,146,147,148,149
Seq#:3077; Xaa Pos. 150,151,152,153,154,155,156,157,158,159,160,161,162,163
Seq#:3077; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177
Seq#:3077; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:3077; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,332,361
Seq#:3082; N Pos. 995,1082
Seq#:3083; Xaa Pos. 332,361
Seq#:3086; N Pos. 1216,1334,1347
Seq#:3087; Xaa Pos. 99,108,117,140,148,239,263,278,281,289,293,297,356,395
Seq#:3099; Xaa Pos. 116
Seq#:3246; N Pos. 224,289
Seq#:3247; Xaa Pos. 74,96
Seq#:3248; N Pos. 741
Seq#:3249; Xaa Pos. 247
Seq#:3257; Xaa Pos. 6,11,65,76
Seq#:3263; Xaa Pos. 36

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

```
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:48
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:96
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:112
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:192
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:300
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:360
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:540
L:1107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:48
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:96
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:112
L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:128
L:1131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:144
L:1135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:160
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:176
L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:192
L:1999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:80
L:2382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:96
L:2800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:2802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:60
L:2843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:2851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:32
L:2914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:60
L:2924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:360
L:2990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16
L:3536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60
L:3546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:360
L:3612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:16
L:4033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:300
L:4035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:360
L:4037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:420
L:4039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:480
L:4041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:540
L:4088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:96
L:4092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:112
L:4096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:128
L:4100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:144
L:4104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:160
L:4108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:176
L:4284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:112
L:4501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:16
L:4517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:80
L:4701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:60
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L:4732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:16
L:5435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:5437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:60
L:5439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:120
L:5445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:300
L:5447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:360
L:5461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:780
L:5463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:840
L:5465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:900
L:5467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:960
L:5469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1020
L:5471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1080
L:5475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1200
L:5479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1320
L:5616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0
L:5620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:16
L:5629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:48
L:5641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:96
L:5645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:112
L:5681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:256
L:5689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:288
L:5693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:304
L:5697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:320
L:5701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:336
L:5705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:352
L:5709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:368
L:5717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:400
L:5729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:448
L:5911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:240
L:5949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:80
L:6484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:32
L:6488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:48
L:6868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:64
L:7497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:120
L:7499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:180
L:7533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:32
L:7537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:48
L:7541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:64
L:7624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:64
L:7869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:1020
L:7971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:256
L:7979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:288
L:7991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:336
L:9299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:16
L:9336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:160
L:9340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:176
L:9857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
L:10057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:190 after pos.:0
L:10382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:196 after pos.:0
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L:10402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:196 after pos.:80
L:11088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:16
L:12069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:96
L:12073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:112
L:12115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:16
L:12945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:250 after pos.:160
L:13313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:0
L:13358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:0
L:13402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:176
L:13646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:60
L:13693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:0
L:13697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:16
L:13701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:32
L:13741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:192
L:13845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264 after pos.:192
L:14286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:144
L:14334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:336
L:14338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:352
L:14342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:368
L:14681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:660
L:14683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:720
L:14717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:0
L:14745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:112
L:14773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:224
L:14777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:240
L:15108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0
L:15110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:60
L:15112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:120
L:15114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:180
L:15116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:240
L:15118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:300
L:15120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:360
L:15122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:420
L:15124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:480
L:15253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286 after pos.:352
L:15521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:0
L:15537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:64
L:15695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:96
L:15699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:112
L:15763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:112
L:15828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300 after pos.:112
L:16930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:64
L:16954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:160
L:17074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:160
L:17391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330 after pos.:112
L:17573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336 after pos.:96
L:17639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338 after pos.:96
L:17889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342 after pos.:32
L:19435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:0
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/674,546B**

DATE: 05/15/2006
TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:19441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:180
L:19459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:720
L:19461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:780
L:19467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:960
L:19469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:1020
L:19471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:1080
L:19473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:1140
L:19525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:16
L:19537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:64
L:19581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:240
L:19585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:256
L:19601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:320
L:19618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:384
L:19836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:80
L:19848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:128
L:19856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:160
L:19860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:176
L:19872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:224
L:20158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371 after pos.:540
L:20228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:176
L:20504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:378 after pos.:32
L:21087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:240
L:21089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:300
L:21212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:32
L:21216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:48
L:21220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:64
L:21970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:48
L:21978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:80
L:21982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:96
L:22483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414 after pos.:384
L:22487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414 after pos.:400
L:23918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:432 after pos.:32
L:24239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:360
L:24241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:420
L:24243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:480
L:24245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:540
L:24247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:600
L:24259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:960
L:24263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:1080
L:24317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:112
L:24321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:128
L:24325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:144
L:24329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:160
L:24333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:176
L:24337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:192
L:24369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:320
L:24377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:352
L:24576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:441 after pos.:960
L:24581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:441 after pos.:1080
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VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:24682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:442 after pos.:320
L:24690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:442 after pos.:352
L:25024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448 after pos.:80
L:25048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448 after pos.:176
L:25057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448 after pos.:208
L:25663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:460 after pos.:240
L:25675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:460 after pos.:288
L:25828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:462 after pos.:320
L:26728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:478 after pos.:208
L:27189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:483 after pos.:1200
L:27193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:483 after pos.:1320
L:27313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:144
L:27317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:160
L:27321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:176
L:27325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:192
L:27349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:288
L:27353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:304
L:27357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:320
L:27361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:336
L:27377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:400
L:27385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:432
L:28486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:496 after pos.:64
L:28490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:496 after pos.:80
L:28717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:502 after pos.:16
L:28757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:502 after pos.:176
L:31309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:546 after pos.:112
L:31321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:546 after pos.:160
L:33509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:576 after pos.:128
L:37464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:623 after pos.:480
L:37524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:624 after pos.:160
L:39052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:360
L:39054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:420
L:39067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:780
L:39081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:1200
L:39165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:128
L:39169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:144
L:39181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:192
L:39197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:256
L:39233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:400
L:40620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:670 after pos.:48
L:42659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:691 after pos.:1140
L:42663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:691 after pos.:1260
L:42787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:692 after pos.:384
L:42795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:692 after pos.:416
L:43381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:700 after pos.:144
L:43385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:700 after pos.:160
L:43389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:700 after pos.:176
L:43617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:706 after pos.:0
L:43621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:706 after pos.:16
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VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:44079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:718 after pos.:112
L:44714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:730 after pos.:128
L:45178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:736 after pos.:496
L:45182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:736 after pos.:512
L:45611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:744 after pos.:64
L:46038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:754 after pos.:144
L:46266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:760 after pos.:16
L:46282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:760 after pos.:80
L:46648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:32
L:46676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:144
L:46680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:160
L:46684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:176
L:46688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:192
L:46916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:771 after pos.:540
L:46955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:772 after pos.:64
L:46983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:772 after pos.:176
L:47082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:774 after pos.:176
L:47202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:777 after pos.:120
L:47243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:778 after pos.:16
L:47247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:778 after pos.:32
L:47345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:780 after pos.:32
L:47438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:782 after pos.:16
L:47530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:784 after pos.:0
L:47550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:784 after pos.:80
L:47756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:790 after pos.:64
L:47850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:793 after pos.:240
L:47900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:794 after pos.:80
L:47984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:796 after pos.:0
L:48079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:120
L:48083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:240
L:48095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:600
L:48146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:48
L:48154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:80
L:48186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:208
L:48226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:799 after pos.:240
L:48276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:800 after pos.:80
L:48447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:120
L:48451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:240
L:48463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:600
L:48514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:804 after pos.:48
L:48522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:804 after pos.:80
L:48555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:804 after pos.:208
L:48949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:814 after pos.:0
L:49270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:824 after pos.:16
L:49286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:824 after pos.:80
L:49351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:826 after pos.:16
L:50622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:843 after pos.:60
L:50674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:844 after pos.:32
L:51299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:854 after pos.:128
```

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:51311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:854 after pos.:176
L:51928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:867 after pos.:60
L:51964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:868 after pos.:16
L:51968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:868 after pos.:32
L:52484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:878 after pos.:48
L:52501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:878 after pos.:112
L:52505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:878 after pos.:128
L:52869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:883 after pos.:780
L:52947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:884 after pos.:160
L:52975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:884 after pos.:272
L:53000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:884 after pos.:368
L:53848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:896 after pos.:0
L:54186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:902 after pos.:112
L:54194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:902 after pos.:144
L:55183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:921 after pos.:60
L:55229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:922 after pos.:16
L:55396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:926 after pos.:16
L:55405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:926 after pos.:48
L:55708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:240
L:55712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:256
L:55716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:272
L:56062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:938 after pos.:240
L:56066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:938 after pos.:256
L:56326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:944 after pos.:112
L:56597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:950 after pos.:0
L:56697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:951 after pos.:840
L:56789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:952 after pos.:288
L:57277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:0
L:57281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:16
L:57285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:32
L:57289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:48
L:57293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:64
L:57306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:112
L:57314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:144
L:57604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:969 after pos.:120
L:57606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:969 after pos.:180
L:57644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:970 after pos.:32
L:57648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:970 after pos.:48
L:58028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:980 after pos.:80
L:59503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1008 after pos.:16
L:60150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:0
L:60154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:16
L:60162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:48
L:60178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:112
L:60290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1023 after pos.:1080
L:60614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1026 after pos.:496
L:61069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1032 after pos.:80
L:61089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1032 after pos.:160
L:61093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1032 after pos.:176
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/674,546B**

DATE: 05/15/2006
TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

```
L:61192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1034 after pos.:176
L:61618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1044 after pos.:80
L:61722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1046 after pos.:160
L:62158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1056 after pos.:48
L:62162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1056 after pos.:64
L:62598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1066 after pos.:64
L:62606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1066 after pos.:96
L:62664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1068 after pos.:64
L:62785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1072 after pos.:48
L:63200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1083 after pos.:180
L:63246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1084 after pos.:48
L:63262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1084 after pos.:112
L:63266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1084 after pos.:128
L:63764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1100 after pos.:16
L:63990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1106 after pos.:0
L:64018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1106 after pos.:112
L:64317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1111 after pos.:1080
L:64343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1112 after pos.:0
L:64431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1112 after pos.:352
L:64612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1115 after pos.:360
L:64660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1116 after pos.:112
L:64754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1118 after pos.:160
L:66159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:0
L:66161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:60
L:66169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:300
L:66171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:360
L:66205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1150 after pos.:0
L:66233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1150 after pos.:112
L:66237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1150 after pos.:128
L:73722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1232 after pos.:272
L:75577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1256 after pos.:320
L:75585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1256 after pos.:352
L:76036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1262 after pos.:96
L:76040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1262 after pos.:112
L:76376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:32
L:76380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:48
L:76384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:64
L:76400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:128
L:76724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:120
L:76728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:240
L:76736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:480
L:76740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:600
L:76792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:32
L:76804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:80
L:76824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:160
L:76836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:208
L:77043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1280 after pos.:176
L:77097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:180
L:77099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:240
```

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: US/09/674,546B   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:77101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:300
L:77107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:480
L:77166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:64
L:77170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:80
L:77174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:96
L:77194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:176
L:77444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:180
L:77446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:240
L:77448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:300
L:77454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:480
L:77513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:64
L:77517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:80
L:77521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:96
L:77542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:176
L:77768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1291 after pos.:180
L:77772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1291 after pos.:300
L:77774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1291 after pos.:360
L:77847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:64
L:77856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:96
L:77860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:112
L:77864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:128
L:79065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1304 after pos.:144
L:79077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1304 after pos.:192
L:79113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1304 after pos.:336
L:80017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1321 after pos.:0
L:80096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:0
L:80124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:112
L:80132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:144
L:80140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:176
L:81124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:0
L:81176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:208
L:81180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:224
L:81192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:272
L:81220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:384
L:81249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:496
L:81253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:512
L:81261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:544
L:81618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:32
L:81622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:48
L:81634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:96
L:81638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:112
L:81650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:160
L:82592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1364 after pos.:128
L:83062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1370 after pos.:224
L:83627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:80
L:83631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:96
L:83639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:128
L:83659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:208
L:83799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379 after pos.:1380
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L:83938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1380 after pos.:448
L:83942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1380 after pos.:464
L:84089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1384 after pos.:16
L:84113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1384 after pos.:112
L:84346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1390 after pos.:64
L:84830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:304
L:84850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:384
L:84894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:560
L:85106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1398 after pos.:496
L:85122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1398 after pos.:560
L:85202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1401 after pos.:0
L:85259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1402 after pos.:96
L:85329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1404 after pos.:96
L:85808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1415 after pos.:60
L:85872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1416 after pos.:16
L:86243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:160
L:86263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:240
L:86267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:256
L:86275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:288
L:86319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1421 after pos.:720
L:86409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1422 after pos.:256
L:87255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1438 after pos.:48
L:87476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1444 after pos.:80
L:87544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:80
L:88415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:0
L:88419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:16
L:88447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:128
L:88455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:160
L:88513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:0
L:88545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:128
L:88927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:16
L:88931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:32
L:88939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:64
L:88943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:80
L:89330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1485 after pos.:0
L:89334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1485 after pos.:120
L:89371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486 after pos.:32
L:89375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486 after pos.:48
L:89607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:0
L:89611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:16
L:89635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:112
L:89639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:128
L:89647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:160
L:89733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1494 after pos.:128
L:89741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1494 after pos.:160
L:90201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:32
L:90205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:48
L:90209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:64
L:90213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:80
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L:90422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1510 after pos.:80
L:91150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:0
L:91154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:16
L:91158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:32
L:91163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:48
L:91334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1533 after pos.:420
L:91893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1543 after pos.:0
L:91940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1544 after pos.:0
L:92117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1546 after pos.:240
L:92439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1552 after pos.:16
L:92835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1557 after pos.:600
L:92839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1557 after pos.:720
L:92935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1558 after pos.:272
L:93314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1563 after pos.:960
L:93408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1564 after pos.:304
L:94173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1582 after pos.:80
L:94189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1582 after pos.:144
L:94201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1582 after pos.:192
L:94276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1583 after pos.:0
L:94282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1583 after pos.:180
L:94284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1583 after pos.:240
L:94343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1584 after pos.:0
L:94359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1584 after pos.:64
L:94363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1584 after pos.:80
L:94574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:0
L:94578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:16
L:94582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:32
L:94590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:64
L:94667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:60
L:94669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:120
L:94671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:180
L:94735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1590 after pos.:32
L:94739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1590 after pos.:48
L:94743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1590 after pos.:64
L:94901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1594 after pos.:112
L:94972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1596 after pos.:112
L:95085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1599 after pos.:120
L:95135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1600 after pos.:32
L:95163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1600 after pos.:144
L:95167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1600 after pos.:160
L:95450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1606 after pos.:48
L:95454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1606 after pos.:64
L:96200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1622 after pos.:160
L:97218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1646 after pos.:80
L:98260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1663 after pos.:420
L:98323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1664 after pos.:144
L:99074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1666 after pos.:1953
L:103292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1722 after pos.:96
L:107222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1800 after pos.:128
```

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:107226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1800 after pos.:144
L:108332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1818 after pos.:448
L:110175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1836 after pos.:96
L:110179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1836 after pos.:112
L:111800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1857 after pos.:360
L:111867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1858 after pos.:128
L:114364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:32
L:114372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:64
L:114546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1900 after pos.:32
L:117538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1952 after pos.:96
L:117609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1954 after pos.:96
L:117613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1954 after pos.:112
L:117924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1961 after pos.:900
L:118024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1962 after pos.:304
L:118585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:0
L:118605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:80
L:118625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:160
L:118654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:272
L:118662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:304
L:118776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1972 after pos.:144
L:119105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1976 after pos.:144
L:119109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1976 after pos.:160
L:119137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1976 after pos.:272
L:119271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1978 after pos.:144
L:120464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1997 after pos.:240
L:120502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1998 after pos.:80
L:121351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2022 after pos.:144
L:123824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2063 after pos.:0
L:123856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2064 after pos.:16
L:124439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2073 after pos.:360
L:124525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2074 after pos.:128
L:125937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2102 after pos.:432
L:126125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2104 after pos.:432
L:128350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2142 after pos.:256
L:128452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2144 after pos.:160
L:128579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2146 after pos.:160
L:129140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2156 after pos.:160
L:129228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2158 after pos.:160
L:131002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2172 after pos.:144
L:131006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2172 after pos.:160
L:131494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2182 after pos.:256
L:134125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2246 after pos.:208
L:134242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2248 after pos.:208
L:134611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2259 after pos.:180
L:134615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2259 after pos.:300
L:134657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2260 after pos.:48
L:134661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2260 after pos.:64
L:134673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2260 after pos.:112
L:135421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2275 after pos.:60
```

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:135455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2276 after pos.:16
L:137042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2307 after pos.:0
L:137072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2308 after pos.:0
L:137559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2315 after pos.:1020
L:137666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2316 after pos.:352
L:138752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2335 after pos.:420
L:138816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2336 after pos.:128
L:140940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:0
L:140944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:120
L:140946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:180
L:140948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:240
L:140956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:480
L:140958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:540
L:140960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:600
L:140964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:720
L:140966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:780
L:140968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:840
L:140972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:960
L:140974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:1020
L:141064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:0
L:141080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:64
L:141084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:80
L:141104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:160
L:141108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:176
L:141112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:192
L:141124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:240
L:141128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:256
L:141136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:288
L:141145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:320
L:141149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:336
L:141435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:120
L:141439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:240
L:141441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:300
L:141443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:360
L:141498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:48
L:141506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:80
L:141510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:96
L:141518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:128
L:142075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:0
L:142077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:60
L:142079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:120
L:142081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:180
L:142089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:420
L:142091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:480
L:142093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:540
L:142095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:600
L:142103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:840
L:142109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:1020
L:142111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:1080
```

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:142117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:1260
L:142215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:0
L:142219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:16
L:142247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:128
L:142251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:144
L:142255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:160
L:142259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:176
L:142263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:192
L:142267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:208
L:142288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:288
L:142304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:352
L:142320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:416
L:142412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2387 after pos.:240
L:155362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2593 after pos.:0
L:155401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2594 after pos.:16
L:163968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2702 after pos.:16
L:164248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2705 after pos.:660
L:164277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2706 after pos.:16
L:164329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2706 after pos.:224
L:165000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2716 after pos.:160
L:165269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2718 after pos.:400
L:165375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2719 after pos.:1320
L:165381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2719 after pos.:1500
L:165510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2720 after pos.:432
L:165856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2724 after pos.:272
L:165864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2724 after pos.:304
L:165892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2724 after pos.:416
L:166073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2726 after pos.:432
L:166266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2732 after pos.:128
L:166412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2736 after pos.:0
L:166494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2738 after pos.:0
L:167919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2774 after pos.:96
L:167931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2774 after pos.:144
L:168174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2780 after pos.:0
L:169324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2796 after pos.:96
L:169434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:96
L:169458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:192
L:169462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:208
L:169466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:224
L:170718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2822 after pos.:128
L:170797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2824 after pos.:112
L:170805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2824 after pos.:144
L:171381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2840 after pos.:112
L:171405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2840 after pos.:208
L:171515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2842 after pos.:208
L:171951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2848 after pos.:240
L:172842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2860 after pos.:128
L:173124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2867 after pos.:480
L:173171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:48
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L:173191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:128
L:173195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:144
L:173203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:176
L:173271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2870 after pos.:64
L:175763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2913 after pos.:480
L:175823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2914 after pos.:160
L:178071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2946 after pos.:0
L:178100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2946 after pos.:112
L:178564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2952 after pos.:208
L:180350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2971 after pos.:360
L:180358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2971 after pos.:600
L:180455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2972 after pos.:208
L:181685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2983 after pos.:480
L:181803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2984 after pos.:160
L:184918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:0
L:184920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:60
L:184928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:300
L:184930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:360
L:184963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3045 after pos.:0
L:184991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3045 after pos.:112
L:184995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3045 after pos.:128
L:186910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3076 after pos.:720
L:186912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3076 after pos.:780
L:186969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:112
L:186973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:128
L:186977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:144
L:186981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:160
L:186985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:176
L:186989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:192
L:187021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:320
L:187029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:352
L:187371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3082 after pos.:960
L:187375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3082 after pos.:1080
L:187476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3083 after pos.:320
L:187485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3083 after pos.:352
L:187695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3086 after pos.:1200
L:187699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3086 after pos.:1320
L:187806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:96
L:187810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:112
L:187814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:128
L:187819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:144
L:187839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:224
L:187847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:256
L:187851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:272
L:187855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:288
L:187871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:352
L:187879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:384
L:189166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3099 after pos.:112
L:201676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3246 after pos.:180
```

VERIFICATION SUMMARY   DATE: 05/15/2006
PATENT APPLICATION: **US/09/674,546B**   TIME: 15:42:26

Input Set : **E:\SEQLIST223002101200.txt**
Output Set: **N:\CRF4\05152006\I674546B.raw**

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L:201678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3246 after pos.:240
L:201747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3247 after pos.:64
L:201751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3247 after pos.:80
L:201872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3248 after pos.:720
L:201952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3249 after pos.:240
L:202212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3257 after pos.:0
L:202228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3257 after pos.:64
L:202635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3263 after pos.:32
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